

Claims

- [c1] 1.A method for operating a network coupling adapter attaching one or more computing device via an associated interconnected memory to either one of an I/O periphery, a network, or other computing devices, characterized by the steps of:
operating a local memory being associated with the network coupling adapter as a cache memory relative to a system memory for storing transmission control information.
- [c2] 2.The method according to claim 1 further comprising the steps of using an InfiniBand Architecture.
- [c3] 3.The method according to the claim 1 further comprising the steps of using said transmission control for the processing of queues or queue pairs.
- [c4] 4.The method according to claim 2 further comprising the steps of using said transmission control for the processing of completion queues.
- [c5] 5.The method according to claim 2 further comprising the steps of using said transmission control for the processing of address translation and protection tables.
- [c6] 6.The method according to claim 2 further comprising the steps of using said local memory for connecting at least one computer device to a network.
- [c7] 7.The method according to claim 2 further comprising the steps of using said transmission control information for bundled per queue or queue pair.
- [c8] 8.The method according to claim 2 further comprising the steps of configuring said cache memory not to discard transmission control information for particular queues after casting-out.
- [c9] 9. The method according to claim 2 further comprising the step of writing said transmission control information to the local memory only before signaling the completion of a InfiniBand verb.
- [c10] 10.The method according to claim 2 further comprising the steps of using said

previous step for connecting a plurality of I/O hardware devices associated with a computing device.

- [c11] 11.The method according to claim 2 further comprising the steps of using said previous step for providing communication channels for interprocess communication between a plurality of processes associated with one or more computing devices.
- [c12] 12.A network coupling element coupling one or more computing devices via an associated interconnected memory to either one of an I/O periphery, a network, or other computing devices characterized by comprising a local memory being operable as a cache memory relative to said interconnected memory.
- [c13] 13.The network coupling element for coupling one or more computing devices via an associated interconnected memory to an I/O periphery, and operates either as a Host Channel Adapter or a Target Channel Adapter being operable according the InfiniBand Architecture is characterized by comprising a local memory being operable as a cache memory relative to said interconnected memory.
- [c14] 14.A server computer system cooperating with a network adapter, said network coupling adapter comprises;
a local memory being operable as a cache memory for storing transmission control information.